



TORQ Analysis of Electricians to Helpers--Electricians




INPUT SECTION:

Transfer	Title	O*NET	Filters		
From Title:	Electricians	47-2111.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Helpers--Electricians	47-3013.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

OUTPUT SECTION:

Grand TORQ:

92











































Ability TORQ		Skills TORQ		Knowledge TORQ	
Level	 93	Level	 88	Level	 94

Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
No Critical Gaps Recorded!				Speaking	58	15	69	No Knowledge Upgrades Required!			
				Mathematics	64	12	76				
				Troubleshooting	65	8	76				
				Installation	69	8	75				
				Active Listening	61	8	74				

LEVEL and IMPT (IMPORTANCE) refer to the Target Helpers--Electricians. GAP refers to level difference between Electricians and Helpers--Electricians.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50

Description	Electricians	Helpers--Electricians	Importance
Manual Dexterity	55 	 53	 75
Near Vision	64 	 55	 72
Problem Sensitivity	69 	 42	 62
Information Ordering	64 	 50	 62
Extent Flexibility	76 	 59	 62
Arm-Hand Steadiness	60 	 48	 59
Finger Dexterity	62 	 46	 59
Trunk Strength	55 	 46	 59
Oral Comprehension	57 	 51	 56
Control Precision	55 	 48	 56
Multilimb Coordination	48 	 42	 56
Static Strength	62 	 44	 56
Visualization	62 	 50	 53
Gross Body Equilibrium	59 	 46	 53



Visual Color Discrimination	55	51	53
Deductive Reasoning	59	39	50
Gross Body Coordination	41	39	50
Skill Level Comparison - Abilities with importance scores over 69			
Description	Electricians	Helpers--Electricians	Importance
Mathematics	52	64	76
Troubleshooting	57	65	76
Installation	61	69	75
Active Listening	53	61	74
Speaking	43	58	69
Knowledge Level Comparison - Knowledge with importance scores over 69			
Description	Electricians	Helpers--Electricians	Importance
Building and Construction	70	65	74

Experience & Education Comparison					
Related Work Experience Comparison			Required Education Level Comparison		
Description	Electricians	Helpers--Electricians	Description	Electricians	Helpers--Electricians
10+ years	15% <div><div></div></div>	0%	Doctoral	0%	0%
8-10 years	0%	2% <div><div></div></div>	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	7% <div><div></div></div>	2% <div><div></div></div>	Master's Degree	0%	0%
2-4 years	13% <div><div></div></div>	10% <div><div></div></div>	Post-Bachelor Cert	0%	0%
1-2 years	30% <div><div></div></div>	14% <div><div></div></div>	Bachelors	0%	0%
6-12 months	13% <div><div></div></div>	18% <div><div></div></div>	AA or Equiv	1% <div><div></div></div>	0%
3-6 months	0%	19% <div><div></div></div>	Some College	3% <div><div></div></div>	2% <div><div></div></div>
1-3 months	0%	0%	Post-Secondary Certificate	<div><div></div></div> 40%	20% <div><div></div></div>
0-1 month	3% <div><div></div></div>	0%	High School Diploma or GED	30% <div><div></div></div>	50% <div><div></div></div>
None	14% <div><div></div></div>	32% <div><div></div></div>	No HSD or GED	23% <div><div></div></div>	27% <div><div></div></div>
Electricians			Helpers--Electricians		
Most Common Educational/Training Requirement:					
Long-term on-the-job training			Short-term on-the-job training		
Job Zone Comparison					
3 - Job Zone Three: Medium Preparation Needed			2 - Job Zone Two: Some Preparation Needed		
Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.			Some previous work-related skill, knowledge, or experience may be helpful in these occupations, but usually is not needed. For example, a teller might benefit from experience working directly with the public, but an inexperienced person could still learn to be a teller with little difficulty.		
Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree. Some may require a bachelor's degree.			These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.		
Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.			Employees in these occupations need anywhere from a few months to one year of working with experienced employees.		



Tasks

Electricians

Core Tasks

Generalized Work Activities:

- Making Decisions and Solving Problems - Analyzing information and evaluating results to choose the best solution and solve problems.
- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.
- Organizing, Planning, and Prioritizing Work - Developing specific goals and plans to prioritize, organize, and accomplish your work.
- Updating and Using Relevant Knowledge - Keeping up-to-date technically and applying new knowledge to your job.

Specific Tasks

Occupation Specific Tasks:

- Advise management on whether continued operation of equipment could be hazardous.
- Assemble, install, test, and maintain electrical or electronic wiring, equipment, appliances, apparatus, and fixtures, using hand tools and power tools.
- Connect wires to circuit breakers, transformers, or other components.
- Construct and fabricate parts, using hand tools and specifications.
- Diagnose malfunctioning systems, apparatus, and components, using test equipment and hand tools, to locate the cause of a breakdown and correct the problem.
- Direct and train workers to install, maintain, or repair electrical wiring, equipment, and fixtures.
- Fasten small metal or plastic boxes to walls to house electrical switches or outlets.
- Inspect electrical systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair, and to ensure compliance with codes.
- Install ground leads and connect power cables to equipment, such as motors.
- Maintain current electrician's license or identification card to meet governmental regulations.

Helpers--Electricians

Core Tasks

Generalized Work Activities:

- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.
- Organizing, Planning, and Prioritizing Work - Developing specific goals and plans to prioritize, organize, and accomplish your work.

Specific Tasks

Occupation Specific Tasks:

- Bolt component parts together to form tower assemblies, using hand tools.
- Break up concrete, using airhammer, to facilitate installation, construction, or repair of equipment.
- Clean work area and wash parts.
- Construct controllers and panels, using power drills, drill presses, taps, saws and punches.
- Dig trenches or holes for installation of conduit or supports.
- Disassemble defective electrical equipment, replace defective or worn parts, and reassemble equipment, using hand tools.
- Drill holes and pull or push wiring through openings, using hand and power tools.
- Erect electrical system components and barricades, and rig scaffolds, hoists, and shoring.
- Examine electrical units for loose connections and broken insulation and tighten connections, using hand tools.
- Install copper-clad ground rods, using a manual post driver.
- Maintain tools, vehicles, and equipment and keep parts and supplies in order.
- Measure, cut, and bend wire and conduit, using measuring instruments and hand



- Perform business management duties such as maintaining records and files, preparing reports and ordering supplies and equipment.
- Perform physically demanding tasks, such as digging trenches to lay conduit and moving and lifting heavy objects.
- Place conduit, pipes or tubing, inside designated partitions, walls, or other concealed areas, and pull insulated wires or cables through the conduit to complete circuits between boxes.
- Plan layout and installation of electrical wiring, equipment and fixtures, based on job specifications and local codes.
- Prepare sketches or follow blueprints to determine the location of wiring and equipment and to ensure conformance to building and safety codes.
- Provide assistance during emergencies by operating floodlights and generators, placing flares, and driving needed vehicles.
- Provide preliminary sketches and cost estimates for materials and services.
- Repair or replace wiring, equipment, and fixtures, using hand tools and power tools.
- Test electrical systems and continuity of circuits in electrical wiring, equipment, and fixtures, using testing devices such as ohmmeters, voltmeters, and oscilloscopes, to ensure compatibility and safety of system.
- Use a variety of tools and equipment such as power construction equipment, measuring devices, power tools, and testing equipment including oscilloscopes, ammeters, and test lamps.
- Work from ladders, scaffolds, and roofs to install, maintain or repair electrical wiring, equipment, and fixtures.

Detailed Tasks

Detailed Work Activities:

- adhere to safety procedures
- analyze operation of malfunctioning electrical or electronic equipment
- bend tubing or conduit
- climb ladders, scaffolding, or utility or telephone poles
- conduct training for personnel
- confer with management or users
- construct or fabricate electrical parts or fixtures
- direct and coordinate activities of workers or staff
- distinguish colors
- drive automobile, van, or light truck
- estimate cost for repair services
- fabricate, assemble, or disassemble manufactured products by hand
- inspect electrical installation for code conformance

TOOLS.

- Operate cutting torches and welding equipment, while working with conduit and metal components to construct devices associated with electrical functions.
- Paint a variety of objects related to electrical functions.
- Perform semi-skilled and unskilled laboring duties related to the installation, maintenance and repair of a wide variety of electrical systems and equipment.
- Raise, lower, or position equipment, tools, and materials, using hoist, hand line, or block and tackle.
- Requisition materials, using warehouse requisition or release forms.
- Solder electrical connections, using soldering iron.
- String transmission lines or cables through ducts or conduits, under the ground, through equipment, or to towers.
- Strip insulation from wire ends, using wire stripping pliers, and attach wires to terminals for subsequent soldering.
- Thread conduit ends, connect couplings, and fabricate and secure conduit support brackets, using hand tools.
- Trace out short circuits in wiring, using test meter.
- Transport tools, materials, equipment, and supplies to work site by hand, handtruck, or heavy, motorized truck.
- Trim trees and clear undergrowth along right-of-way.

Detailed Tasks

Detailed Work Activities:

- apply cleaning solvents
- assist mechanic, or extractive or construction trades craft worker
- bend tubing or conduit
- clean equipment or machinery
- clean rooms or work areas
- climb ladders, scaffolding, or utility or telephone poles
- construct or fabricate electrical parts or fixtures
- dig holes or trenches for foundations, posts, poles, or related items
- dismantle or reassemble rigging
- distinguish colors
- drive automobile, van, or light truck
- erect scaffold
- fabricate, assemble, or disassemble manufactured products by hand
- install electrical conduit or tubing
- install/string electrical or electronic cable or wiring
- maintain electrician's tools or equipment



- install electrical conduit or tubing
- install electrical fixtures or components
- install electronic power, communication, control, or security equipment or systems
- install lead-in wires to control boxes and other components
- install or replace meters, regulators, or related measuring or control devices
- install/connect electrical equipment to power circuit
- install/string electrical or electronic cable or wiring
- lay out electrical wiring for buildings, etc.
- maintain electrician's tools or equipment
- maintain records, reports, or files
- move or fit heavy objects
- order or purchase supplies, materials, or equipment
- perform safety inspections in construction or resource extraction setting
- perform safety inspections in industrial, manufacturing or repair setting
- plan layout of electrical/electronic equipment installation
- plan or organize work
- prepare reports
- read blueprints
- read tape measure
- read technical drawings
- repair electronic components, equipment, or systems
- repair or adjust measuring or control devices
- repair or replace electrical wiring, circuits, fixtures, or equipment
- replace electronic components
- solder electrical or electronic connections or components
- splice electric cable
- splice electric or communications trunk lines
- test electrical/electronic wiring, equipment, systems or fixtures
- test electronic or electrical circuit connections
- understand service or repair manuals
- use electrical or electronic test devices or equipment
- use hand or power tools
- use high voltage apparatus
- use interpersonal communication techniques
- use measuring devices in construction or extraction work
- use oscilloscopes in electronics repair
- use soldering equipment
- use voltmeter, ammeter, or ohmmeter

- maintain inventory or supplies
- maintain or repair cargo or passenger vehicle
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate hoist, winch, or hydraulic boom
- paint walls or other structural surfaces
- read blueprints
- read tape measure
- read technical drawings
- repair or replace electrical wiring, circuits, fixtures, or equipment
- replace electronic components
- set up specialized rigging
- solder electrical or electronic connections or components
- test electrical/electronic wiring, equipment, systems or fixtures
- test electronic or electrical circuit connections
- use acetylene welding/cutting torch
- use basic carpentry techniques
- use chain saws
- use electrical or electronic test devices or equipment
- use hand or power tools
- use measuring devices in construction or extraction work
- use soldering equipment
- use voltmeter, ammeter, or ohmmeter

Technology - Examples

Spreadsheet software

- Recordkeeping software

Word processing software

- Report generation software

Tools - Examples

- Pliers
- Crescent wrenches
- Air compressors
- Ammeters
- Awws
- Backhoes
- Cable tie guns
- Block and tackle equipment
- Cutting torches



Technology - Examples

Accounting software

- Turtle Creek Software Goldenseal

Analytical or scientific software

- Electrosoft FlashWorks
- Elite ECOORD
- Elite Software Inpoint
- Elite Software Outpoint
- Elite Software Short
- Elite Software VDROP

- Lighting calculation software

- SoftEmpire Electrical Calculations

Computer aided design CAD software

- Computer aided design CAD software
- One Mile Up Panel Planner
- SmartDraw software

Data base user interface and query software

- Database software
- Insight Direct ServiceCEO
- Resolve service management software
- Shafer Service Systems software
- Timberline Office

Project management software

- Construction Master Pro software
- Craftsman CD Estimator

Spreadsheet software

- Spreadsheet software

Word processing software

- Socrates Contractor's Library
- Word processing software

Tools - Examples

- Pump pliers
- Adjustable wrenches
- Air compressors
- Ammeters

- Insulated port cutters

- Horizontal boring tools

- Bear claw wire threaders

- Cable reels

- Cable splicing knives

- Inductance testers

- Resistance bridges

- Capacitance testers

- Bucket trucks

- Continuity testers

- Circuit test meters

- Current clamps

- Pneumatic compacting equipment

- Hydraulic conduit benders

- Conduit deburring tools

- Desktop computers

- Diagonal cut pliers

- Dump trucks

- Side cutting pliers

- Fish tape pullers

- Fuse pullers

- Gas leak detection devices

- Generators

- Ground fault circuit interrupter GFCI testers

- Hammers

- Handtrucks

- Heat guns

- Hex key sets

- Hoist trucks

- Circle cutters

- Electric impact drivers

- Transfer impedance meters

- Cable labeling machines



- AWS

- Backhoes

- Cable tie guns

- Bandsaws

- Cutting torches

- Insulated bolt cutters

- Bear claw wire threaders

- Single reel cable trailers

- Cable splicing knives

- Inductance testers

- Resistance bridges

- Capacitance testers

- Bucket trucks

- Circuit testers

- Circuit tracers

- Current clamps

- Cable benders

- Truck cranes

- Conduit deburring tools

- Desktop computers

- Diagonal cut pliers

- Drill bits

- Frequency meters

- End cutting pliers

- Feeler gauges

- Fish tape pullers

- Fuse pulling equipment

- Gas leak detection devices

- Generators

- Ground fault circuit interrupter GFCI testers

- Claw hammers

- Hard hats

- Heat guns

- Ladders

- Levels

- Extension lamp extractors

- Insulated pliers

- Conduit locknut and reaming pliers

- Long nose pliers

- Lighted magnet pickups

- Electric manlifts

- Meggers

- Magnetic locators

- Digital multimeters

- Nibbler cutting tools

- Notebook computers

- Insulated nutdrivers

- Double-end can socket wrenches

- Ohmmeters

- Personal computers

- Phase rotation meters

- Picks

- Polyvinyl chloride PVC cutters

- Plumb bobs

- Airhammers

- Post drivers

- Cordless drills

- Cable gripping gloves

- Punchdown tools

- Tapered reamers

- Respirators

- External snap ring pliers

- Hacksaws

- Scaffolding

- Cabinet tip screwdrivers

- Shears



- Allen wrenches
- Hole saws
- Hydraulic presses
- Transfer impedance meters
- Cable labeling machines
- Ladders
- Laser printers
- Conduit levels
- Insulated pliers
- Channel lock pliers
- Heavy duty longnose pliers
- Lighted magnet pickups
- Inspection mirrors
- Manlifts
- Meggers
- Magnetic locators
- Depth gauges
- Multimeters
- Needlenose pliers
- Nibbler cutting tools
- Notebook computers
- Insulated nutdrivers
- Double-end can socket wrenches
- Ohmmeters
- Oscilloscopes
- Personal computers
- Personal digital assistants PDA
- Phase rotation meters
- Polyvinyl chloride PVC cutters
- Ratcheting pipe wrenches
- Laser plumb bobs
- Cordless drills

• Snips

- Insulated socket sets
- Soldering irons
- Insulated wrenches
- Wire wrap guns
- Punches
- Strap wrenches
- Automatic wire strippers
- Compaction tampers
- Tape measures
- Infrared scanners
- Dies
- Taps
- Tongue and groove pliers
- Excavators
- Air spades
- Two way radios
- Electricians' knives
- Non-contact voltage sensors
- Welders
- Welding hoods
- Bulldozers
- Electricians' snips
- Crimping tools
- Cable cutters
- Drill presses

- Circular saws
- Cable gripping gloves
- Punchdown tools
- Razor knives
- Tapered reamers
- Respirators
- External snap ring pliers
- Protective safety glasses
- Hacksaws
- Scaffolding
- Cabinet tip screwdrivers
- Shears
- Insulated socket sets
- Butane soldering irons/torches
- Insulated wrenches
- Wire wrap guns
- Hydraulic punching tools
- Staple guns
- Strap wrenches
- Automatic insulation strippers
- Tablet computers
- Conduit measuring tapes
- Tap and die sets
- Tension gauges
- Infrared scanners
- Threading dies
- Tin snips
- Tongue and groove pliers
- Diggers
- Two way radios
- Utility knives
- Milliameters



- Wattmeters
- Welders
- Welding hoods
- Soldering tools
- Winches
- Electricians' scissors
- Crimping pliers
- Cable butt trimmers

Labor Market Comparison

Description	Electricians	Helpers--Electricians	Difference
Median Wage	\$ 43,650	\$ 31,250	\$(12,400)
10th Percentile Wage	\$ 32,680	\$ 24,000	\$(8,680)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 49,050	\$ 35,550	\$(13,500)
90th Percentile Wage	\$ 52,890	\$ 38,740	\$(14,150)
Mean Wage	\$ 43,700	\$ 31,020	\$(12,680)
Total Employment - 2007	2,910	560	-2,350
Employment Base - 2006	3,304	564	-2,740
Projected Employment - 2016	3,340	592	-2,748
Projected Job Growth - 2006-2016	1.1 %	5.0 %	3.9 %
Projected Annual Openings - 2006-2016	89	17	-72

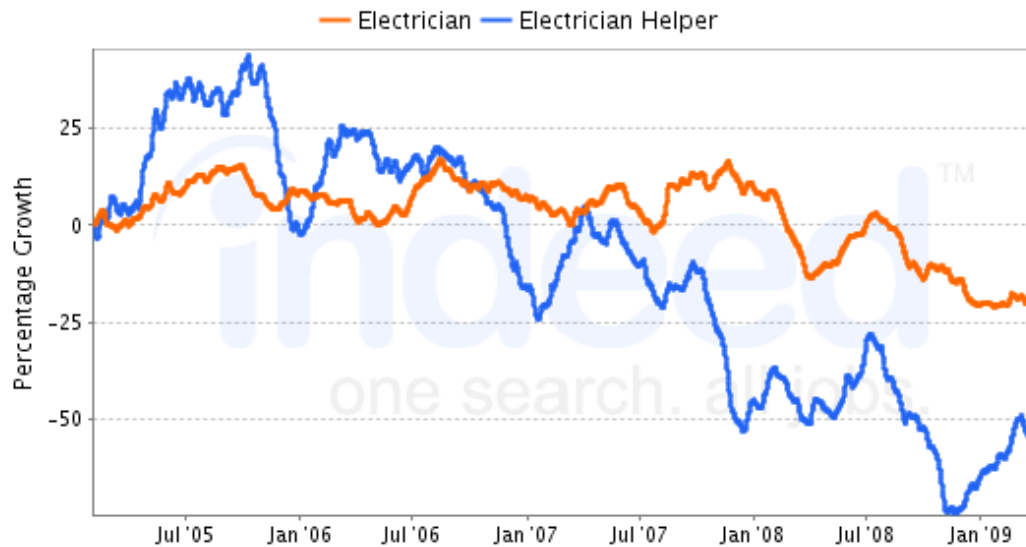
National Job Posting Trends

Trend for Electricians

Trend for
Helpers--Electricians



Job Trends from Indeed.com



Data from [Indeed](http://Indeed.com)

Recommended Programs

Electrician

Electrician. A program that prepares individuals to apply technical knowledge and skills to install, operate, maintain, and repair electric apparatus and systems such as residential, commercial, and industrial electric-power wiring; and DC and AC motors, controls, and electrical distribution panels. Includes instruction in the principles of electronics and electrical systems, wiring, power transmission, safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes and standards.

Institution	Address	City	URL
Eastern Maine Community College	354 Hogan Rd	Bangor	www.emcc.edu
Washington County Community College	One College Drive	Calais	www.wccc.me.edu
Kennebec Valley Community College	92 Western Ave	Fairfield	www.kvcc.me.edu
Kennebec Valley Community College	92 Western Ave	Fairfield	www.kvcc.me.edu
Northern Maine Community College	33 Edgemont Dr	Presque Isle	www.nmcc.edu
Northern Maine Community College	33 Edgemont Dr	Presque Isle	www.nmcc.edu
Northern Maine Community College	33 Edgemont Dr	Presque Isle	www.nmcc.edu
Southern Maine Community College	2 Fort Road	South Portland	www.smccME.edu

Maine Statewide Promotion Opportunities for Electricians

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
47-2111.00	Electricians	100	3	2,910	\$43,650.00	\$0.00	1%	89
47-4021.00	Elevator Installers and Repairers	86	4	0	\$50,960.00	\$7,310.00	0%	0



49-9051.00	Electrical Power-Line Installers and Repairers	85	3	280	\$47,750.00	\$4,100.00	9%	12
51-4192.00	Lay-Out Workers, Metal and Plastic	85	2	180	\$43,870.00	\$220.00	-24%	3
49-9012.00	Control and Valve Installers and Repairers, Except Mechanical Door	85	3	170	\$47,860.00	\$4,210.00	-9%	3
49-9052.00	Telecommunications Line Installers and Repairers	84	3	720	\$56,120.00	\$12,470.00	0%	19
51-4111.00	Tool and Die Makers	83	3	160	\$51,670.00	\$8,020.00	-11%	2
49-2094.00	Electrical and Electronics Repairers, Commercial and Industrial Equipment	82	3	440	\$49,450.00	\$5,800.00	-19%	15
49-2095.00	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	81	5	20	\$60,790.00	\$17,140.00	5%	1
47-1011.00	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	79	3	3,190	\$46,630.00	\$2,980.00	3%	77
49-3011.00	Aircraft Mechanics and Service Technicians	79	3	210	\$44,280.00	\$630.00	-2%	2
47-5031.00	Explosives Workers, Ordnance Handling Experts, and Blasters	78	2	0	\$44,240.00	\$590.00	0%	0
49-9061.00	Camera and Photographic Equipment Repairers	77	3	0	\$44,660.00	\$1,010.00	0%	0
17-3023.03	Electrical Engineering Technicians	77	3	430	\$45,180.00	\$1,530.00	-20%	9
11-9021.00	Construction Managers	76	3	970	\$72,320.00	\$28,670.00	4%	35

Top Industries for Helpers--Electricians

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Electrical contractors	238210	87.60%	92,278	97,774	5.96%
Self-employed workers, primary job	000601	2.83%	2,981	3,209	7.65%
Employment services	561300	1.71%	1,804	2,307	27.89%
Nonresidential building construction	236200	1.50%	1,581	1,790	13.22%
Plumbing, heating, and air-conditioning contractors	238220	1.44%	1,515	1,729	14.11%
Local government, excluding education and hospitals	939300	0.54%	570	647	13.52%
Electric power generation, transmission and distribution	221100	0.38%	401	373	-7.06%
Residential building construction	236100	0.36%	383	436	13.79%
Power and communication line and related structures construction	237130	0.29%	304	324	6.30%



Unpaid family workers, primary job	000701	0.24%	254	203	-20.06%
Offices of real estate agents and brokers	531200	0.20%	215	265	23.08%
Colleges, universities, and professional schools, public and private	611300	0.17%	177	200	13.05%
Other building equipment contractors	238290	0.13%	139	152	9.52%
Management of companies and enterprises	551100	0.12%	124	145	16.49%
General medical and surgical hospitals, public and private	622100	0.10%	108	121	11.87%

Top Industries for Electricians

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Electrical contractors	238210	62.85%	443,111	481,763	8.72%
Self-employed workers, primary job	000601	9.20%	64,835	71,620	10.46%
Local government, excluding education and hospitals	939300	2.23%	15,740	18,334	16.48%
Self-employed workers, secondary job	000602	1.55%	10,924	11,833	8.32%
Nonresidential building construction	236200	1.39%	9,799	11,384	16.18%
Employment services	561300	1.38%	9,746	8,313	-14.70%
Plumbing, heating, and air-conditioning contractors	238220	1.25%	8,792	10,294	17.09%
Motor vehicle parts manufacturing	336300	1.16%	8,149	6,727	-17.45%
Electric power generation, transmission and distribution	221100	1.01%	7,125	6,795	-4.64%
Colleges, universities, and professional schools, public and private	611300	0.89%	6,241	7,239	16.00%
Residential building construction	236100	0.77%	5,415	6,322	16.76%
Federal government, excluding postal service	919999	0.67%	4,750	4,656	-1.98%
Ship and boat building	336600	0.53%	3,766	4,370	16.06%
Coal mining	212100	0.48%	3,382	3,542	4.71%
State government, excluding education and hospitals	929200	0.47%	3,329	3,387	1.75%